W232CA Transmitter Power Output Calculation

FM System Calculator

Options

Solve For: (•) TPO ( ) ERP

Antenna input: (•) End fed ( ) Center Fed

Edit Antenna Database

Transmission Line FM Mid-Band Average Power Rating is 8.08kW

User Input

ERP:	.099	kW		
Frequency:	94.3	MHz		
Center of Radiation (COR) - AGL:	888	ft	270.7	m
SWR Panel W232		Antenna		
Additional Losses:	1.1	dB		
Distance, Transmitter to Tower:	245	ft	74.7	m
Andrew LDF5-50A, 7/8" Foam Heliax		Trans. Line		

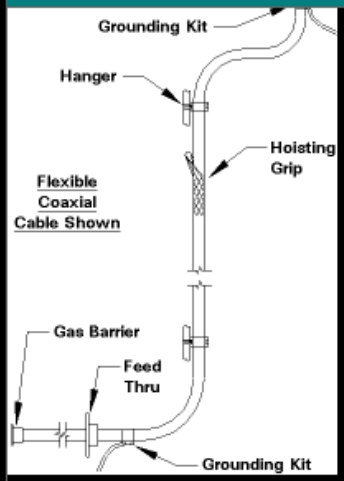
1st Null	0 Degrees, Infinity mi.
2nd Null	

No Beam Tilt or Null Fill Used

Calculated Results

Antenna Power Gain	1.709		Tx Line Length	1128 ft (343.8 m)
Antenna Field Gain	1.3073		Minimum Tower Aperture	20 ft (6.1 m)
Ant. FI @ 1 mi./1kW	179.883	mV/m	Top Bay Elevation - AGL	893 ft (272.3 m)
Antenna Input Power	.058	kW	Antenna Length	10 ft (3.2 m)
Line Attenuation/100 ft	.3521	dB	Bottom of Antenna - AGL	883 ft (269.1 m)
Power Loss in Coax	.128	kW 31.1	% Eff	
TPO	.186	KW		

This Software is Provided for **Planning Purposes Only!**



The Following Systems Will Work In This Application:

A 815D5-5 kW Solid-State Analog FM Transmitter

Line Accessories

# of Hangers	295
Hanger Spacing	3 ft
# of Hanger Adapters	295
# of Hoisting Grips	4
# of Grounding Straps	6